

FIG. 1

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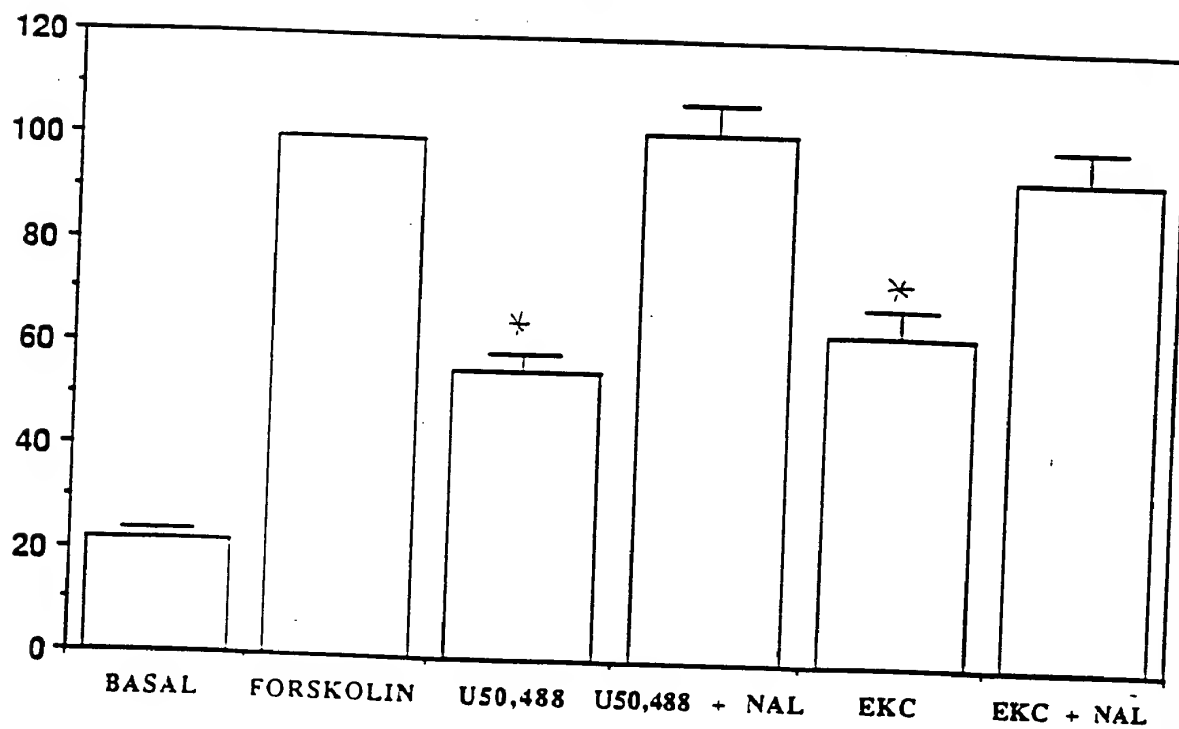


FIG. 2a

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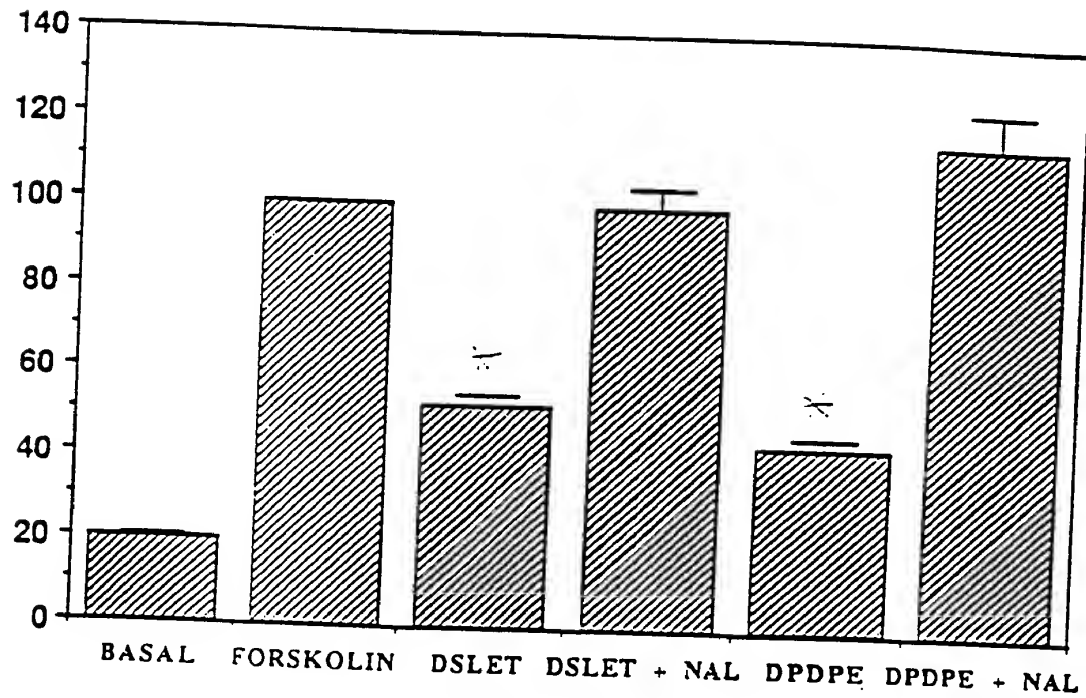


FIG. 2b

1 AAGAAGCAAAATCAGTAATCCAAAGGCTATCACAACACATTACCTTATGGGGTTTGAC
 61 TTGAAAATGGAGGGAAATGCTATTGTTTCTTTCTTTTAGATACACAAAGATGAAGACAG
 TyrThrLysMetLysThrAla
 121 ThrAsnIleTyrIlePheAsnLeuAlaLeuAlaAspAlaLeuValThrThrThrMetPro
 CAACCAACATTTACATATTTAACCTGGCTTTGGCAGATGCTTTAGTTACTACAACCATGC
 181 PheGlnSerThrValTyrLeuMetAsnSerTrpProPheGlyAspValLeuCysLysIle
 CCTTCAGAGTACGGTCTACTTGATGAATTCCTGGCCTTTTGGGGATGTGCTGTGCAAGA
 241 ValIleSerIleAspTyrTyrAsnMetPheThrSerIlePheThrLeuThrMetMetSer
 TAGTAATTTCCATTGATTACTACAACATGTTCCACCAGCATCTTCACCTTGACCATGATGA
 301 ValAspArgTyrIleAlaValCysHisProValLysAlaLeuAspPheArgThrProLeu
 GCGTGGACCGCTACATTGCCGTGTGCCACCCCGTGAAGGCTTTGGACTTCCGCACACCCCT
 361 LysAlaLysIleIleAsnIleCysIleTrpLeuLeuSerSerSerValGlyIleSerAla
 TGAAGGCAAAGATCATCAATATCTGCATCTGGCTGCTGTCTGCATCTGTGGCATCTCTG
 421 IleValLeuGlyGlyThrLysValArgGluA
 CAATAGTCCTTGGAGGCACCAAAGTCAGGGAAGGT::::::::::::TTTCTGTGTTGT
 481 spValAspValIleGluCysCysLeuGlnPheProAsp
 GGTTTTTATTGCCCTCCTCCAGACGTCGATGTCATTGAGTGCTGCTTGAGTTCCAGAT
 541 AspAspTyrSerTrpTrpAspLeuPheMetLysIleCysValPheIlePheAlaPheVal
 GATGACTACTCCTGGTGGGACCTCTTCATGAAGATCTGCGTCTTCATCTTTGCCTTCGTG
 601 IleProValLeuIleIleIleValCysTyrThrLeuMetIleLeuArgLeuLysNNNVal
 ATCCCTGTCCTCATCATCATCGTCTGCTACACCCTGATGATCCTGCGTCTCAAGANNNGTC
 661 ArgLeuLeuSerGlySerArgGluLysAspNNNAsnLeuArgArgIleThrArgLeuVal
 CGGCTCCTTTCTGGCTCCCGAGAGAAAGATNNCAACCTGCGTAGGATCACCAGACTGGTC
 721 LeuValValValAlaValPheValValCysTrpThrProIleHisIlePheIleLeuVal
 CTGGTGGTGGTGGCAGTCTTCGTCGTCGCTGCTGGACTCCCATTCACATATTCATCCTGGTG
 781 GluAlaLeuGlySerThrSerHisSerThrAlaAlaLeuSerSerTyrTyrPheCysIle
 GAGGCTCTGGGGAGCACCTCCACAGCACAGCTGCTCTCTCCAGCTATTACTTCTGCATC
 841 AlaLeuGlyTyrThrAsnSerSerLeuAsnProIleLeuTyrAlaPheLeuAspGluAsn
 GCCTTAGGCTATACCAACAGTAGCCTGAATCCCATCTCTACGCCTTCTTGATGAAAAC
 901 PheLysArgCysPheArgAspPheCysPheProLeuLysMetNNNMetGluArgNNNSer
 TTCAAGCGGTGTTTCCGGGACTTCTGCTTTCCACTGAAGATGAGNATGGAGCGCNAGAGC
 961 ThrSerArgValArgAsnThrValGlnAspProAlaTyrLeuArgGluIleAspGlyMet
 ACTAGCAGAGTCCGAAATACAGTTCAGGATCCTGCTTACCTGAGGGAGATCGATGGGATG
 1021 MetAsnLysProValop (SEQ ID NO:12)
 ATGAATAAACCAAGTATGACTAGTCGTGGA (SEQ ID NO:11)

FIG. 3

	Met	Glu	Ser	Pro	Ile	Gln	Ile	Phe	Arg	Gly	Asp	Pro	Gly	Pro	Thr	Cys
	1				5					10					15	
	Ser	Pro	Ser	Ala	Cys	Leu	Leu	Pro	Asn	Ser	Ser	Ser	Trp	Phe	Pro	Asn
				20					25					30		
	Trp	Ala	Glu	Ser	Asp	Ser	Asn	Gly	Ser	Val	Gly	Ser	Glu	Asp	Gln	Gln
			35					40					45			
	Leu	Glu	Ser	Ala	His	Ile	Ser	Pro	Ala	Ile	Pro	Val	Ile	Ile	Thr	Ala
		50					55					60				
	Val	Tyr	Ser	Val	Val	Phe	Val	Val	Gly	Leu	Val	Gly	Asn	Ser	Leu	Val
		65				70					75					80
HUMAN																
MOUSE	Met	Phe	Val	Ile	Ile	Arg	Tyr	Thr	Lys	Met	Lys	Thr	Ala	Thr	Asn	Ile
					85					90					95	
HUMAN	Tyr	Ile	Phe	Asn	Leu	Ala	Leu	Ala	Asp	Ala	Leu	Val	Thr	Thr	Thr	Met
MOUSE	Tyr	Ile	Phe	Asn	Leu	Ala	Leu	Ala	Asp	Ala	Leu	Val	Thr	Thr	Thr	Met
				100					105					110		
HUMAN	Pro	Phe	Gln	Ser	Thr	Val	Tyr	Leu	Met	Asn	Ser	Trp	Pro	Phe	Gly	Asp
MOUSE	Pro	Phe	Gln	Ser	Ala	Val	Tyr	Leu	Met	Asn	Ser	Trp	Pro	Phe	Gly	Asp
			115					120					125			
HUMAN	Val	Leu	Cys	Lys	Ile	Val	Ile	Ser	Ile	Asp	Tyr	Tyr	Asn	Met	Phe	Thr
MOUSE	Val	Leu	Cys	Lys	Ile	Val	Ile	Ser	Ile	Asp	Tyr	Tyr	Asn	Met	Phe	Thr
		130					135					140				
HUMAN	Ser	Ile	Phe	Thr	Leu	Thr	Met	Met	Ser	Val	Asp	Arg	Tyr	Ile	Ala	Val
MOUSE	Ser	Ile	Phe	Thr	Leu	Thr	Met	Met	Ser	Val	Asp	Arg	Tyr	Ile	Ala	Val
	145					150					155					160
HUMAN	Cys	His	Pro	Val	Lys	Ala	Leu	Asp	Phe	Arg	Thr	Pro	Leu	Lys	Ala	Lys
MOUSE	Cys	His	Pro	Val	Lys	Ala	Leu	Asp	Phe	Arg	Thr	Pro	Leu	Lys	Ala	Lys
					165				170						175	
HUMAN	Ile	Ile	Asn	Ile	Cys	Ile	Trp	Leu	Leu	Ser	Ser	Ser	Val	Gly	Ile	Ser
MOUSE	Ile	Ile	Asn	Ile	Cys	Ile	Trp	Leu	Leu	Ala	Ser	Ser	Val	Gly	Ile	Ser
				180				185						190		
HUMAN	Ala	Ile	Val	Leu	Gly	Gly	Thr	Lys	Val	Arg	Glu	Asp	Val	Asp	Val	Ile
MOUSE	Ala	Ile	Val	Leu	Gly	Gly	Thr	Lys	Val	Arg	Glu	Asp	Val	Asp	Val	Ile
			195					200					205			
HUMAN	Glu	Cys	Cys	Leu	Gln	Phe	Pro	Asp	Asp	Asp	Tyr	Ser	Trp	Trp	Asp	Leu
MOUSE	Glu	Cys	Ser	Leu	Gln	Phe	Pro	Asp	Asp	Glu	Tyr	Ser	Trp	Trp	Asp	Leu
		210					215					220				
HUMAN	Phe	Met	Lys	Ile	Cys	Val	Phe	Ile	Phe	Ala	Phe	Val	Ile	Pro	Val	Leu
MOUSE	Phe	Met	Lys	Ile	Cys	Val	Phe	Val	Phe	Ala	Phe	Val	Ile	Pro	Val	Leu
	225					230					235					240
HUMAN	Ile	Ile	Ile	Val	Cys	Tyr	Thr	Leu	Met	Ile	Leu	Arg	Leu	Lys	NNN	Val
MOUSE	Ile	Ile	Ile	Val	Cys	Tyr	Thr	Leu	Met	Ile	Leu	Arg	Leu	Lys	Ser	Val
					245					250					255	

FIG. 4a

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HUMAN Arg Leu Leu Ser Gly Ser Arg Glu Lys Asp NNN Asn Leu Arg Arg Ile 08 455683
 MOUSE Arg Leu Leu Ser Gly Ser Arg Glu Lys Asp Arg Asn Leu Arg Arg Ile
 260 265 270
 HUMAN Thr Arg Leu Val Leu Val Val Val Ala Val Phe Val Val Cys Trp Thr
 MOUSE Thr Lys Leu Val Leu Val Val Val Ala Val Phe Ile Ile Cys Trp Thr
 275 280 285
 HUMAN Pro Ile His Ile Phe Ile Leu Val Glu Ala Leu Gly Ser Thr Ser His
 MOUSE Pro Ile His Ile Phe Ile Leu Val Glu Ala Leu Gly Ser Thr Ser His
 290 295 300
 HUMAN Ser Thr Ala Ala Leu Ser Ser Tyr Tyr Phe Cys Ile Ala Leu Gly Tyr
 MOUSE Ser Thr Ala Ala Leu Ser Ser Tyr Tyr Phe Cys Ile Ala Leu Gly Tyr
 305 310 315 320
 HUMAN Thr Asn Ser Ser Leu Asn Pro Ile Leu Tyr Ala Phe Leu Asp Glu Asn
 MOUSE Thr Asn Ser Ser Leu Asn Pro Val Leu Tyr Ala Phe Leu Asp Glu Asn
 325 330 335
 HUMAN Phe Lys Arg Cys Phe Arg Asp Phe Cys Phe Pro Leu Lys Met NNN Met
 MOUSE Phe Lys Arg Cys Phe Arg Asp Phe Cys Phe Pro Ile Lys Met Arg Met
 340 345 350
 HUMAN Glu Arg NNN Ser Thr Ser Arg Val Arg Asn Thr Val Gln Asp Pro Ala
 MOUSE Glu Arg Gln Ser Thr Asn Arg Val Arg Asn Thr Val Gln Asp Pro Ala
 355 360 365
 HUMAN Tyr Leu Arg Glu Ile Asp Gly Met Met Asn Lys Pro Val (SEQ ID NO:12)
 MOUSE Ser Met Arg Asp Val Gly Gly Met Asn Lys Pro Val (SEQ ID NO:2)
 370 375 380

FIG. 4b

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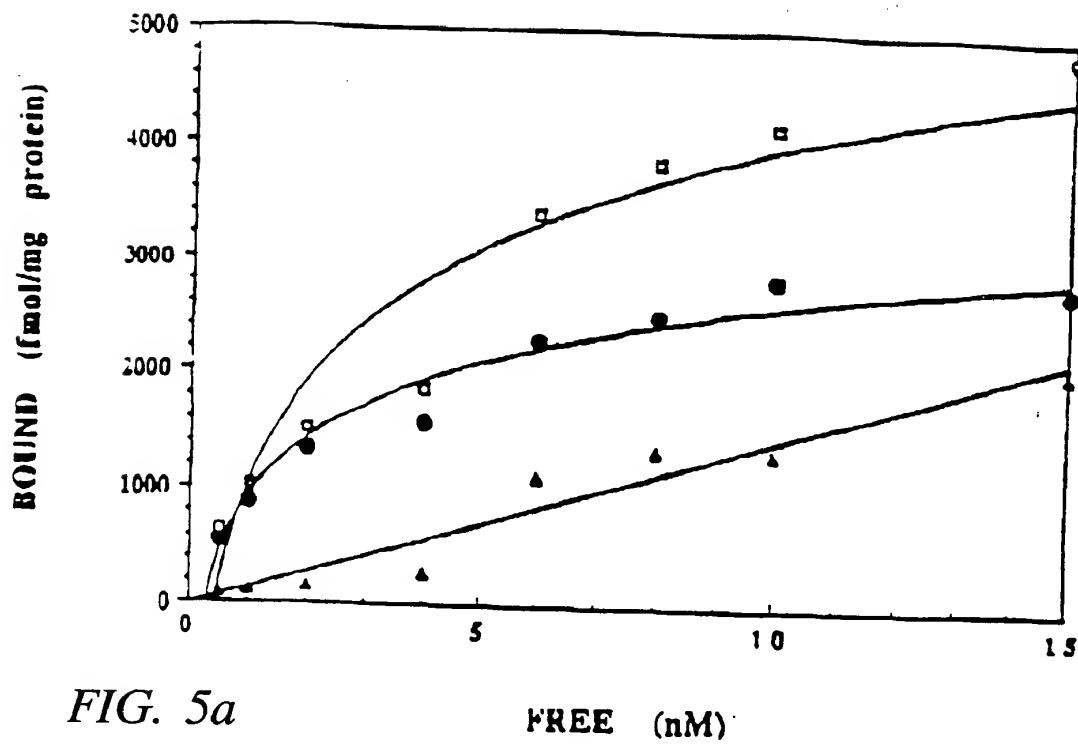


FIG. 5a

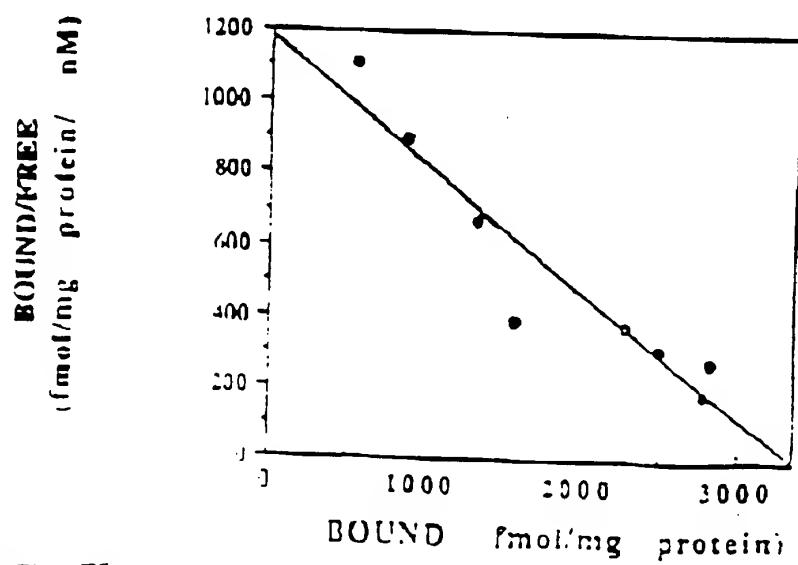


FIG. 5b

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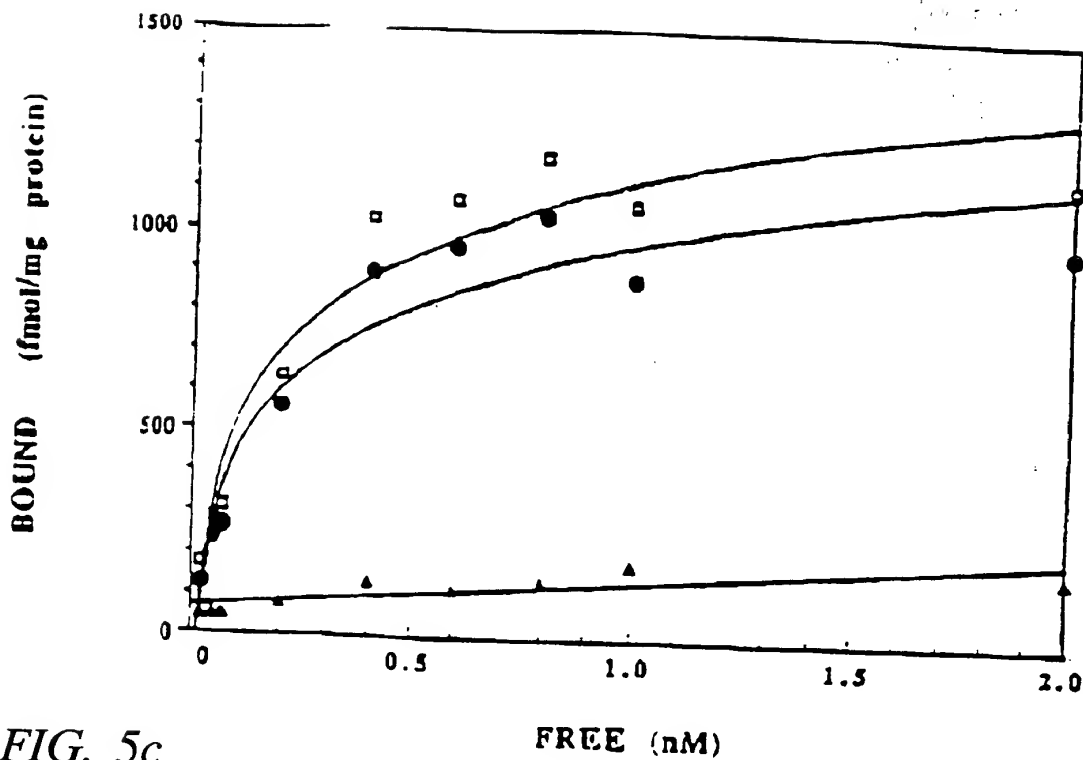


FIG. 5c

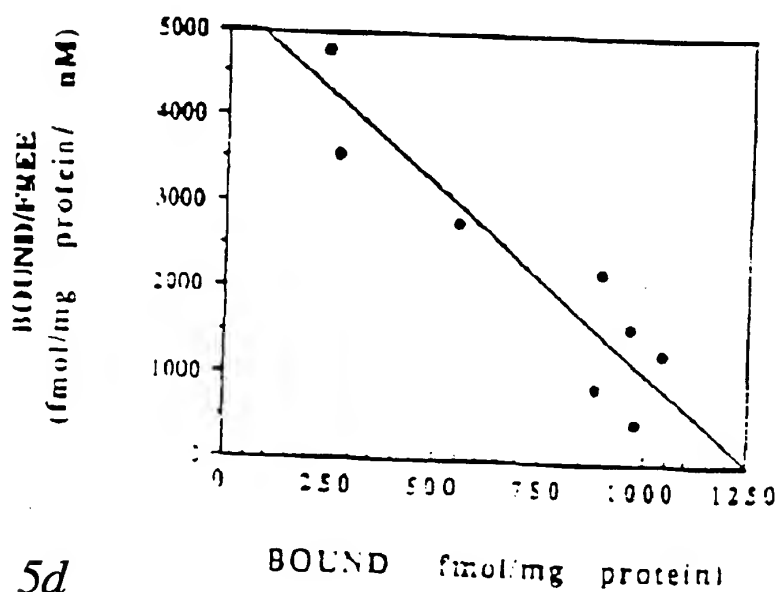


FIG. 5d

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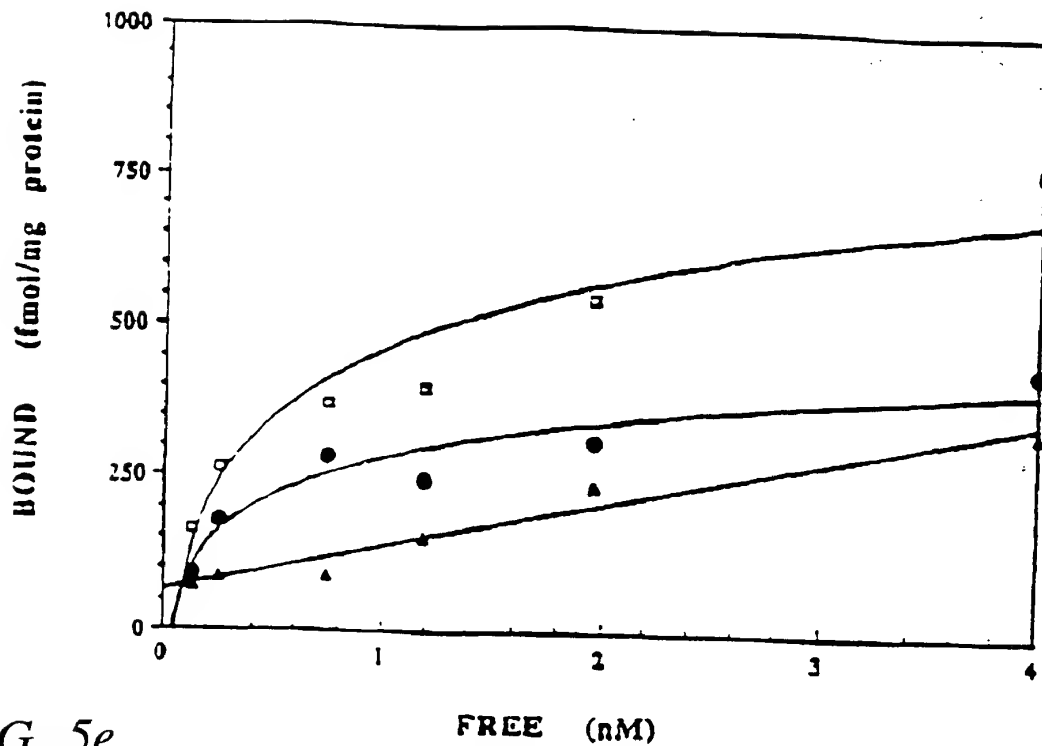


FIG. 5e

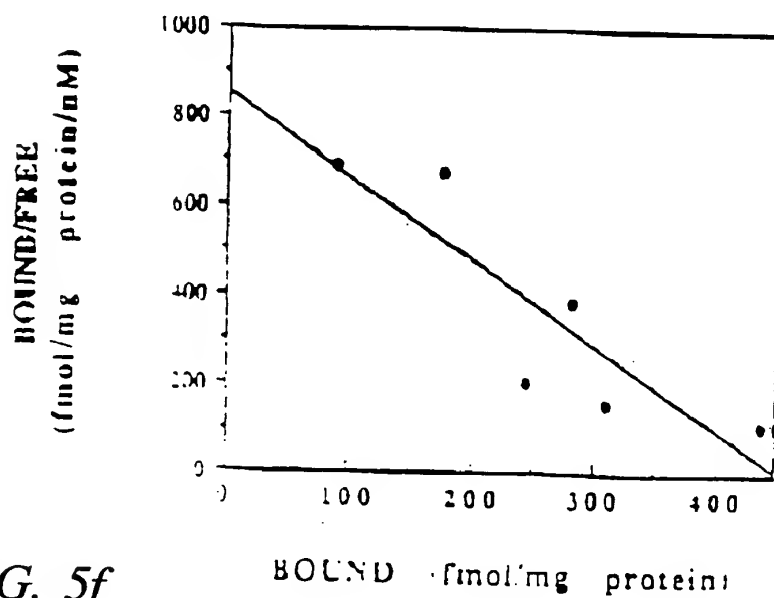


FIG. 5f

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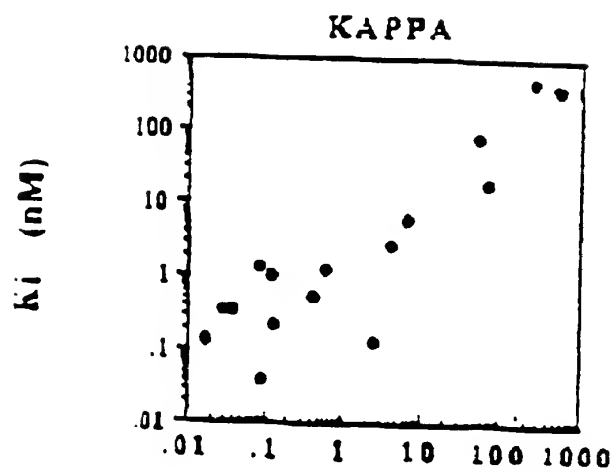


FIG. 6a

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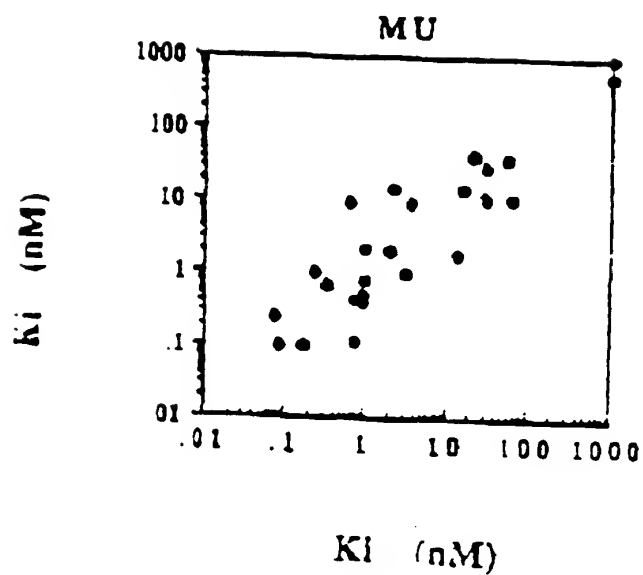


FIG. 6b

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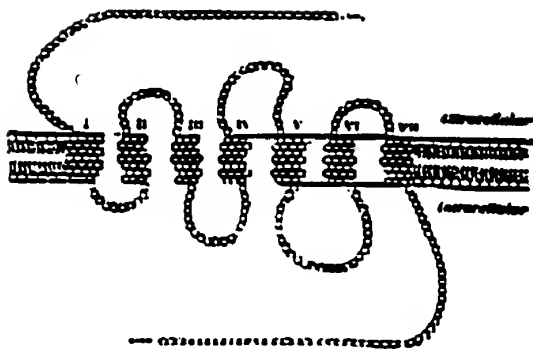


FIG. 7a

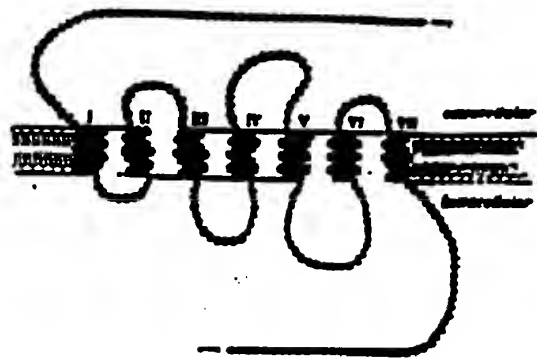


FIG. 7b

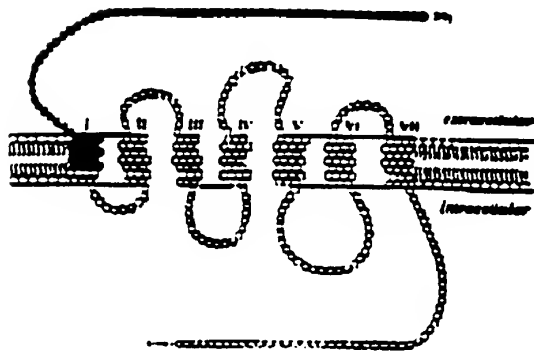


FIG. 7c

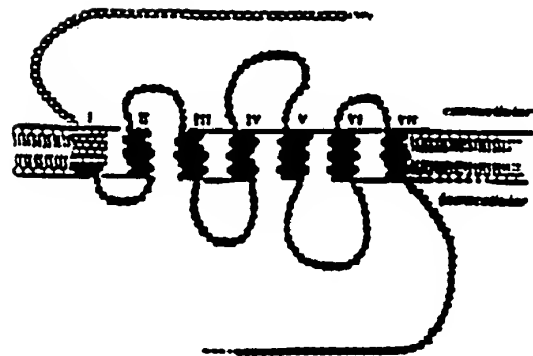


FIG. 7d

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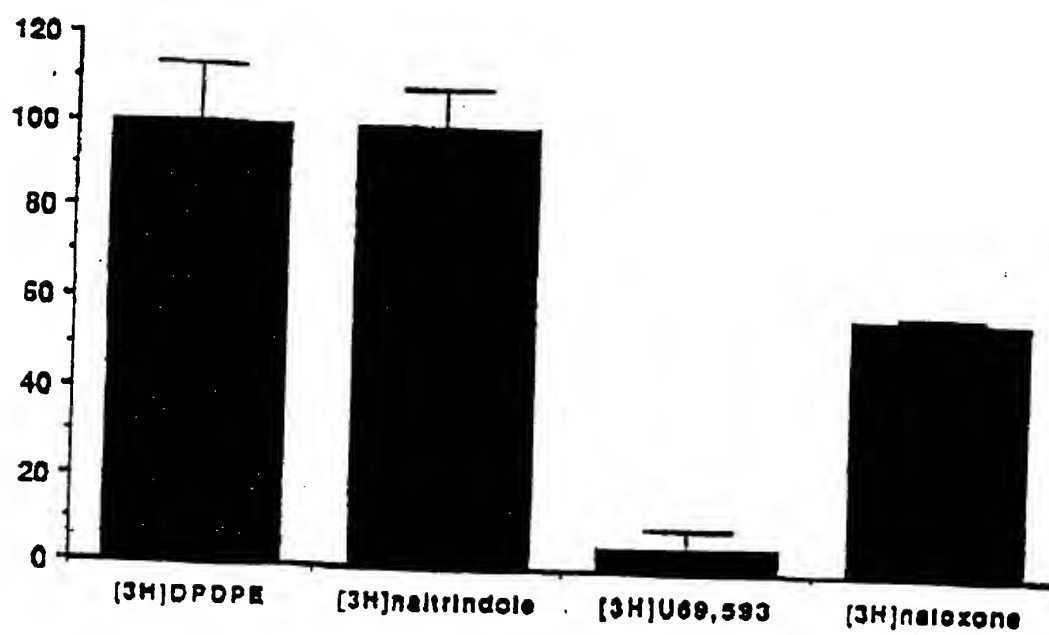


FIG. 8

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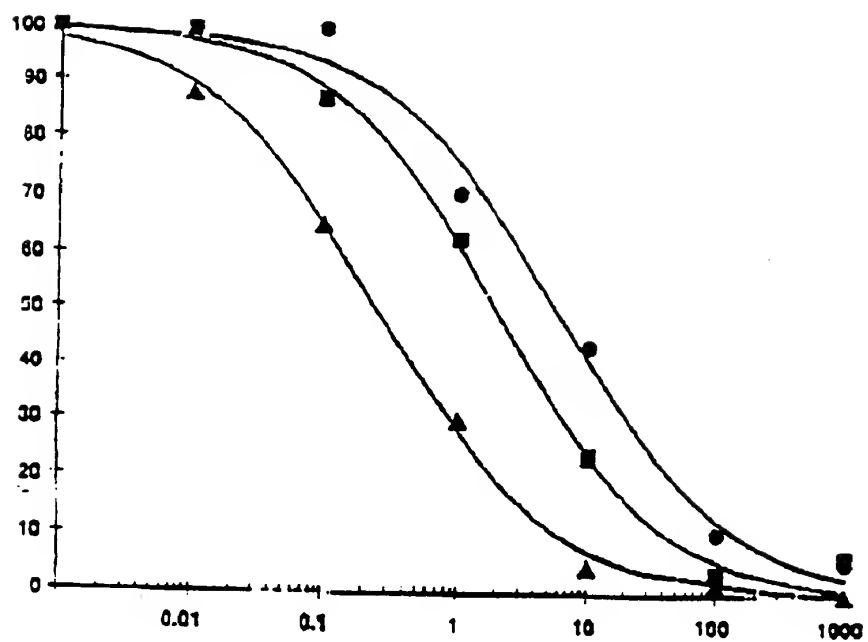
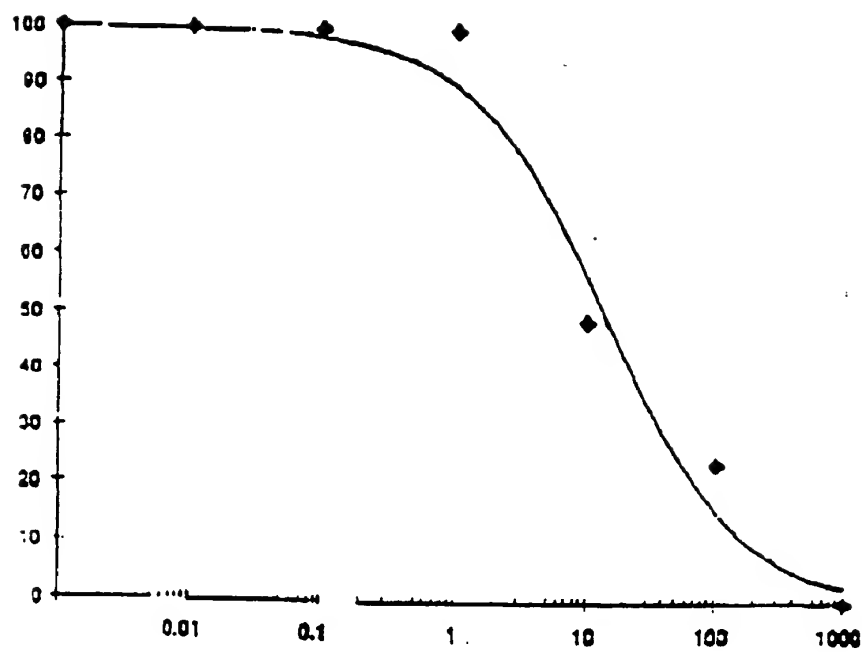


FIG. 9a

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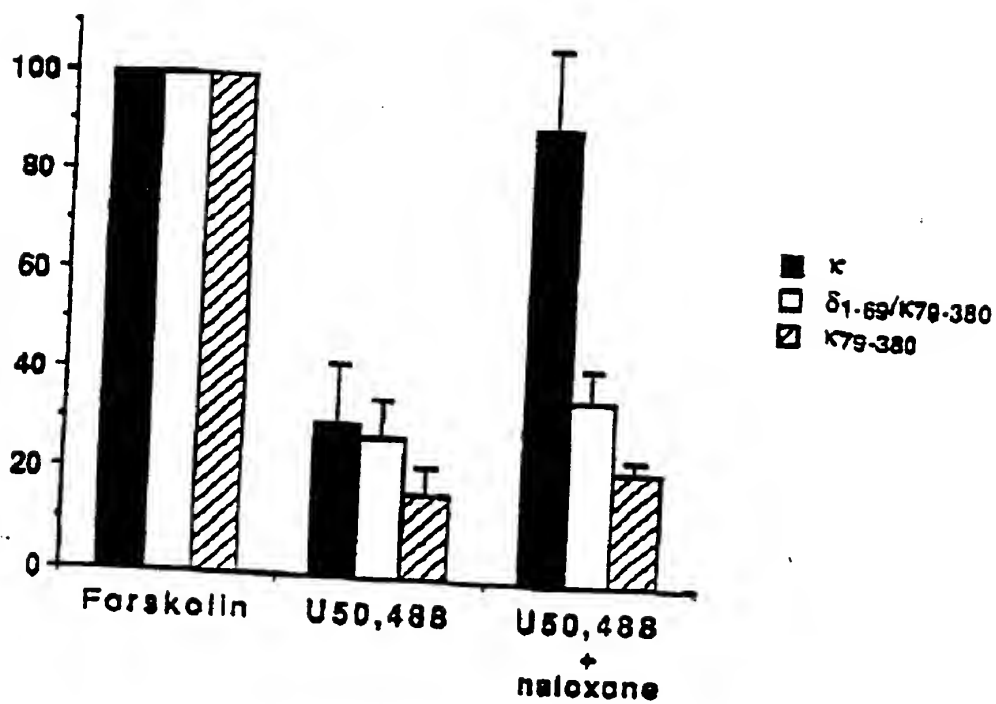


FIG. 10a

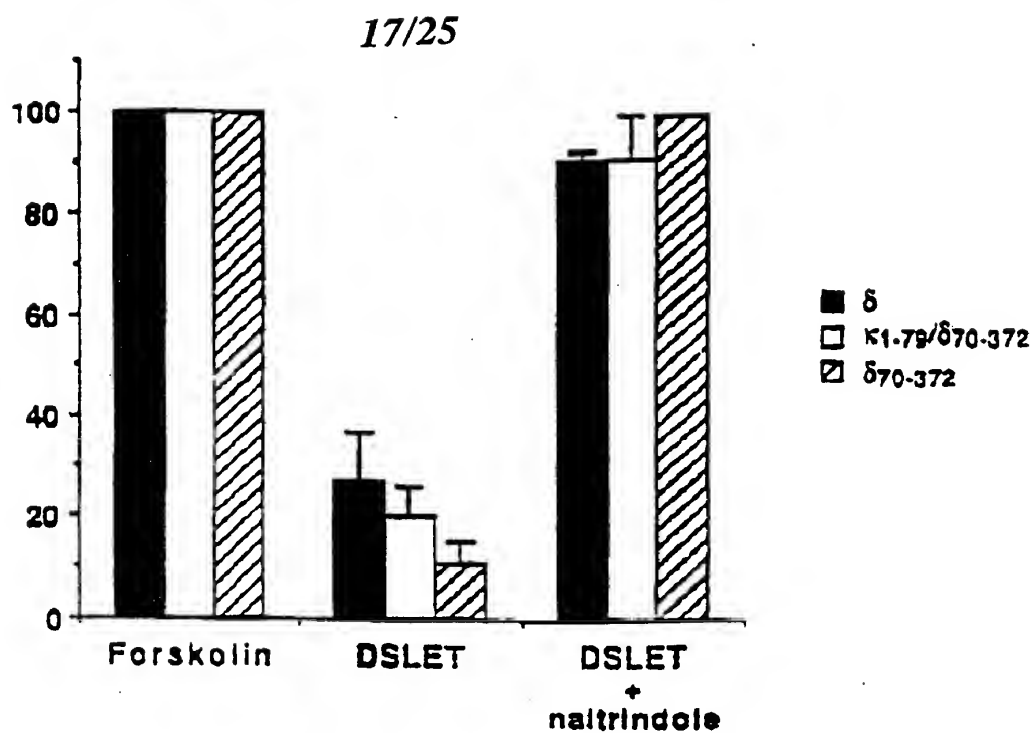


FIG. 10b

FIG. 11a

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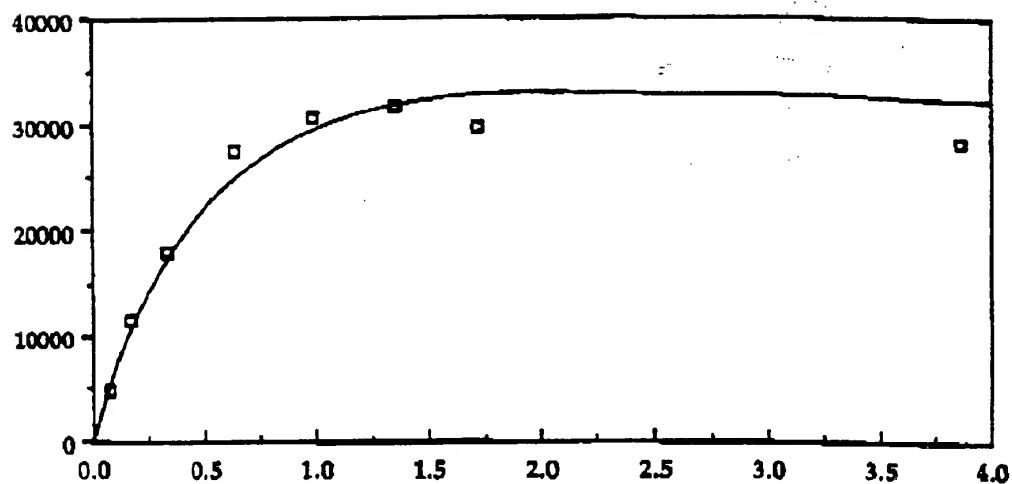


FIG. 11b

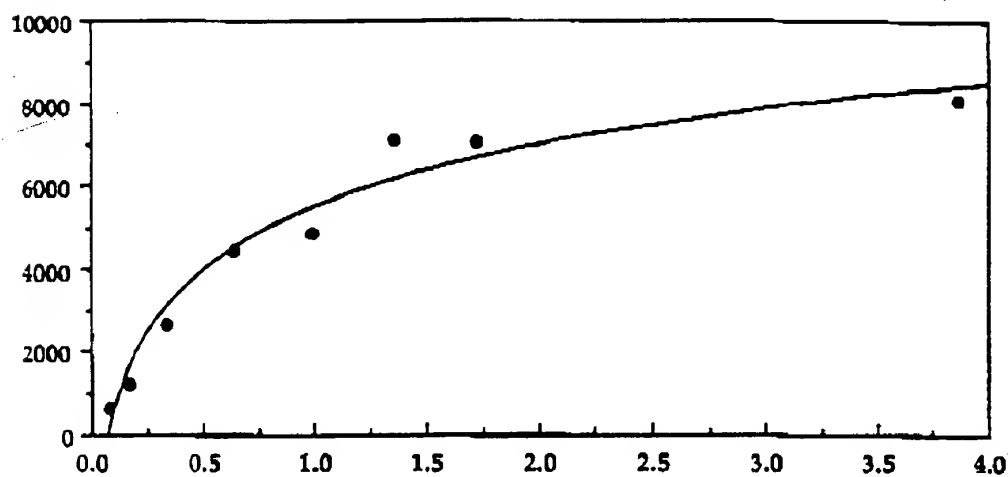
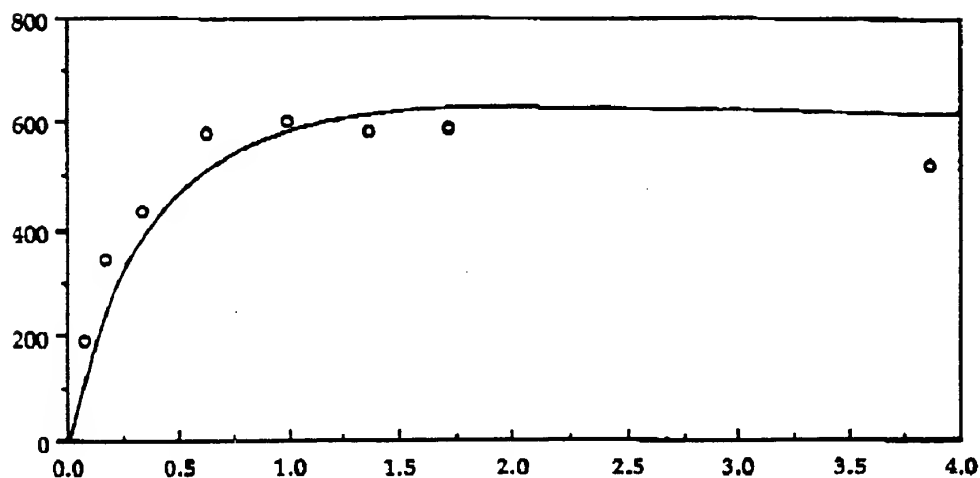


FIG. 11c



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FIG. 12a

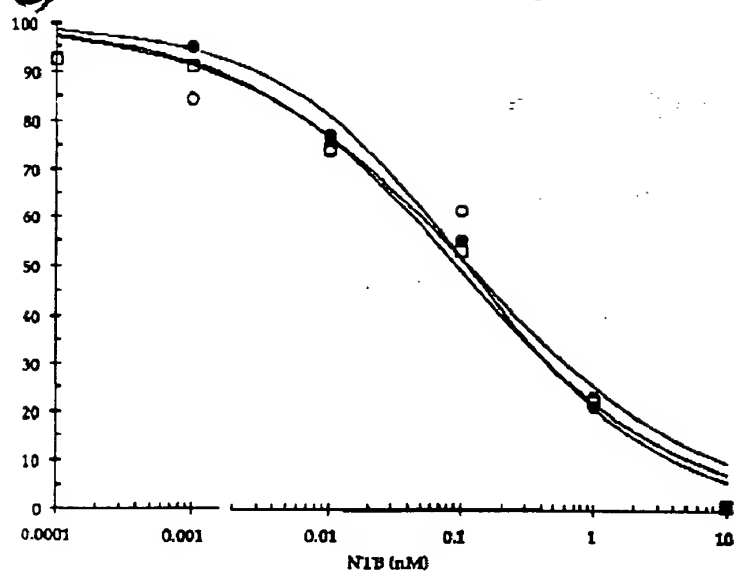


FIG. 12b

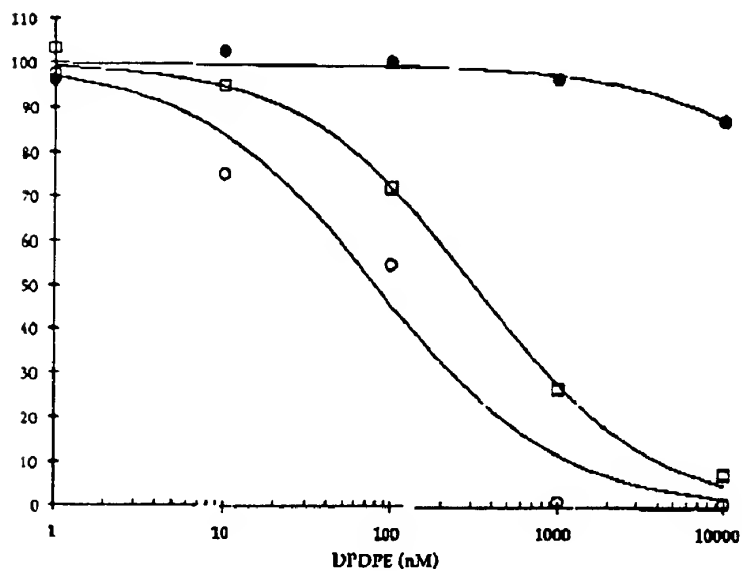
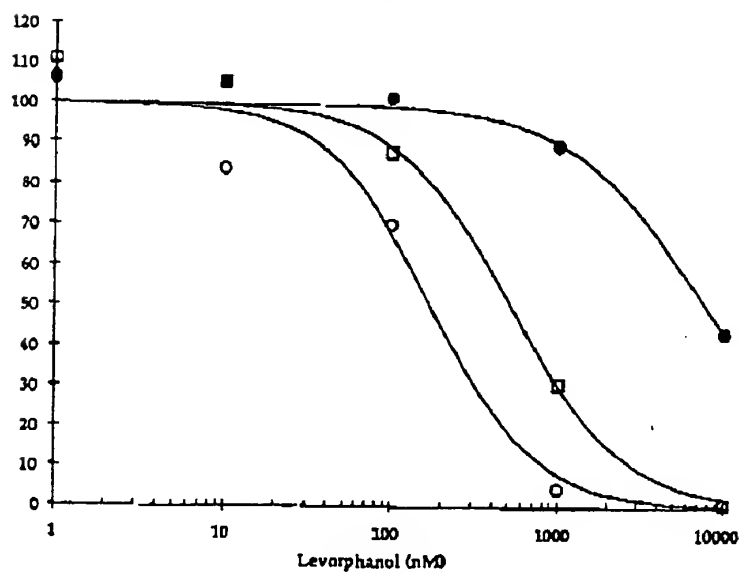


FIG. 12c



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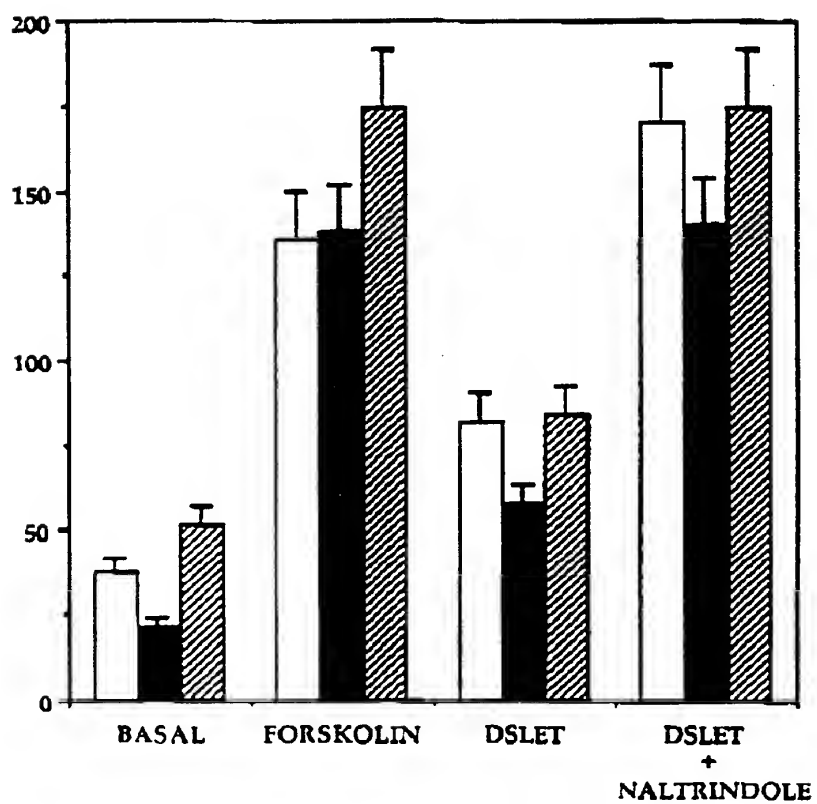
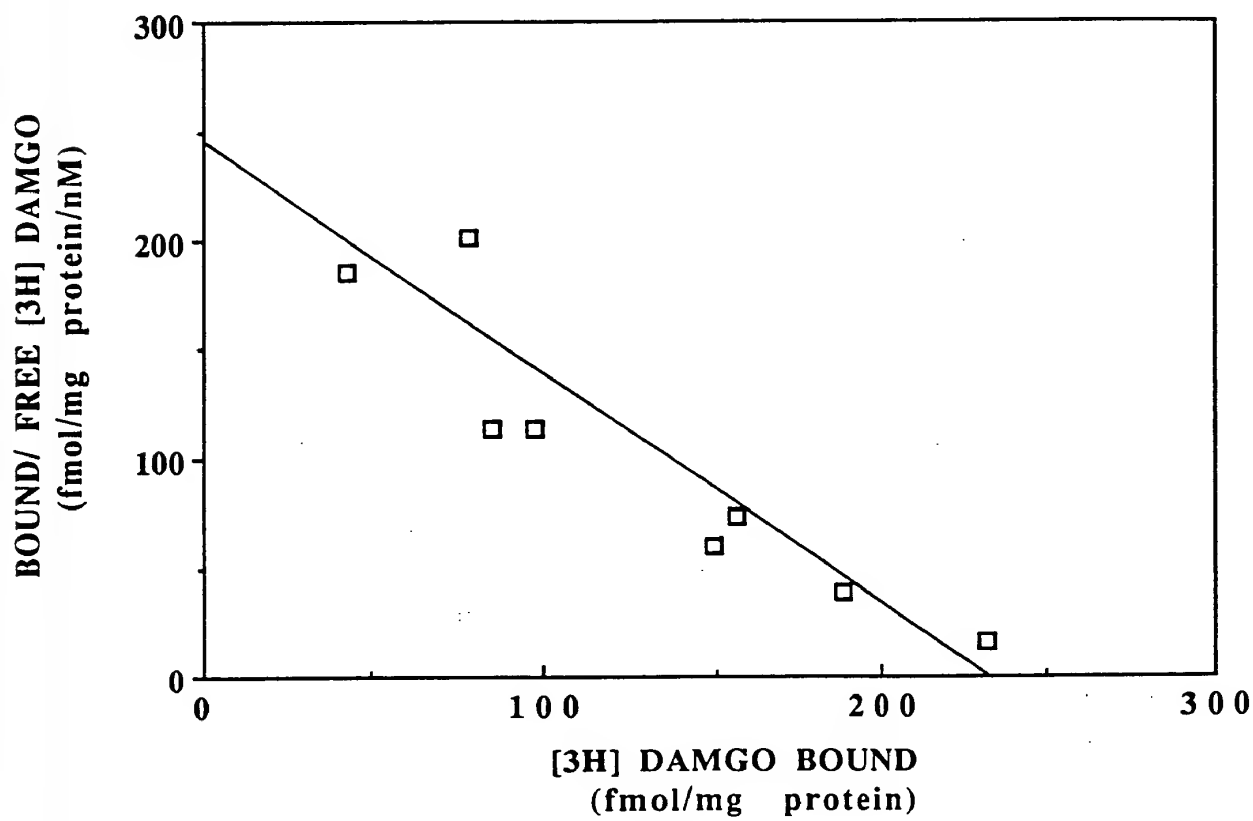
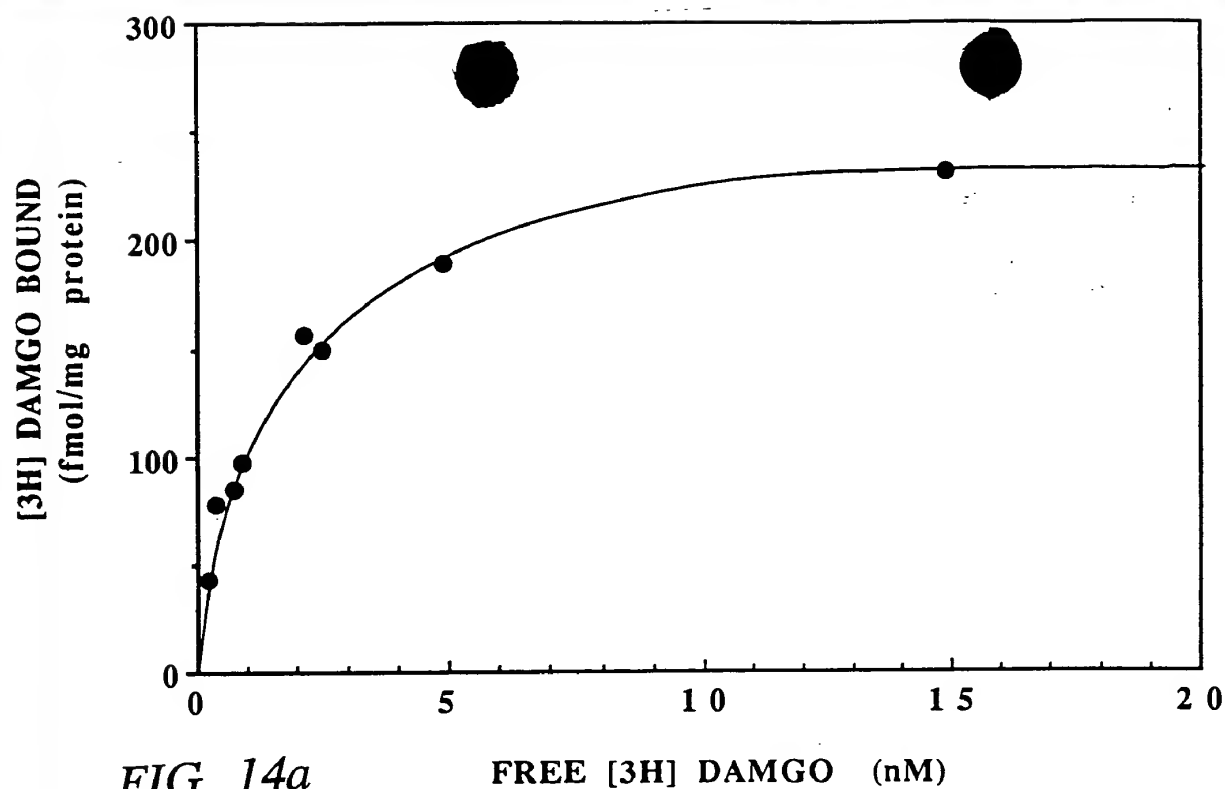


FIG. 13



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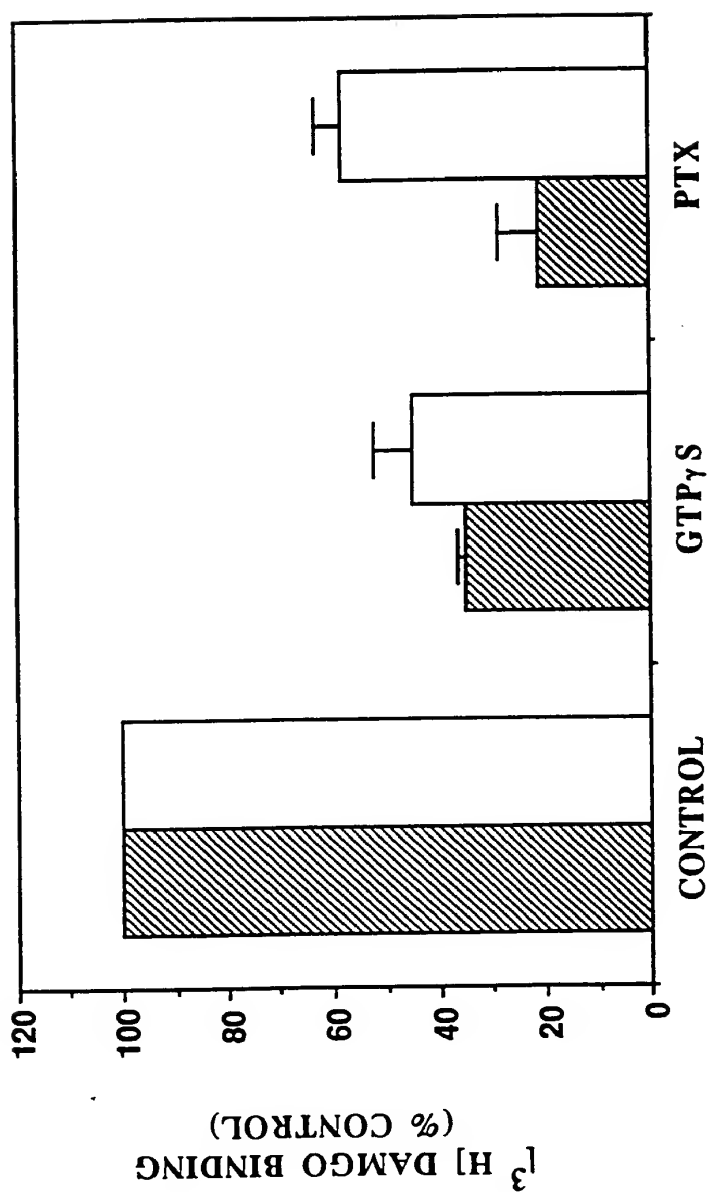


FIG. 15

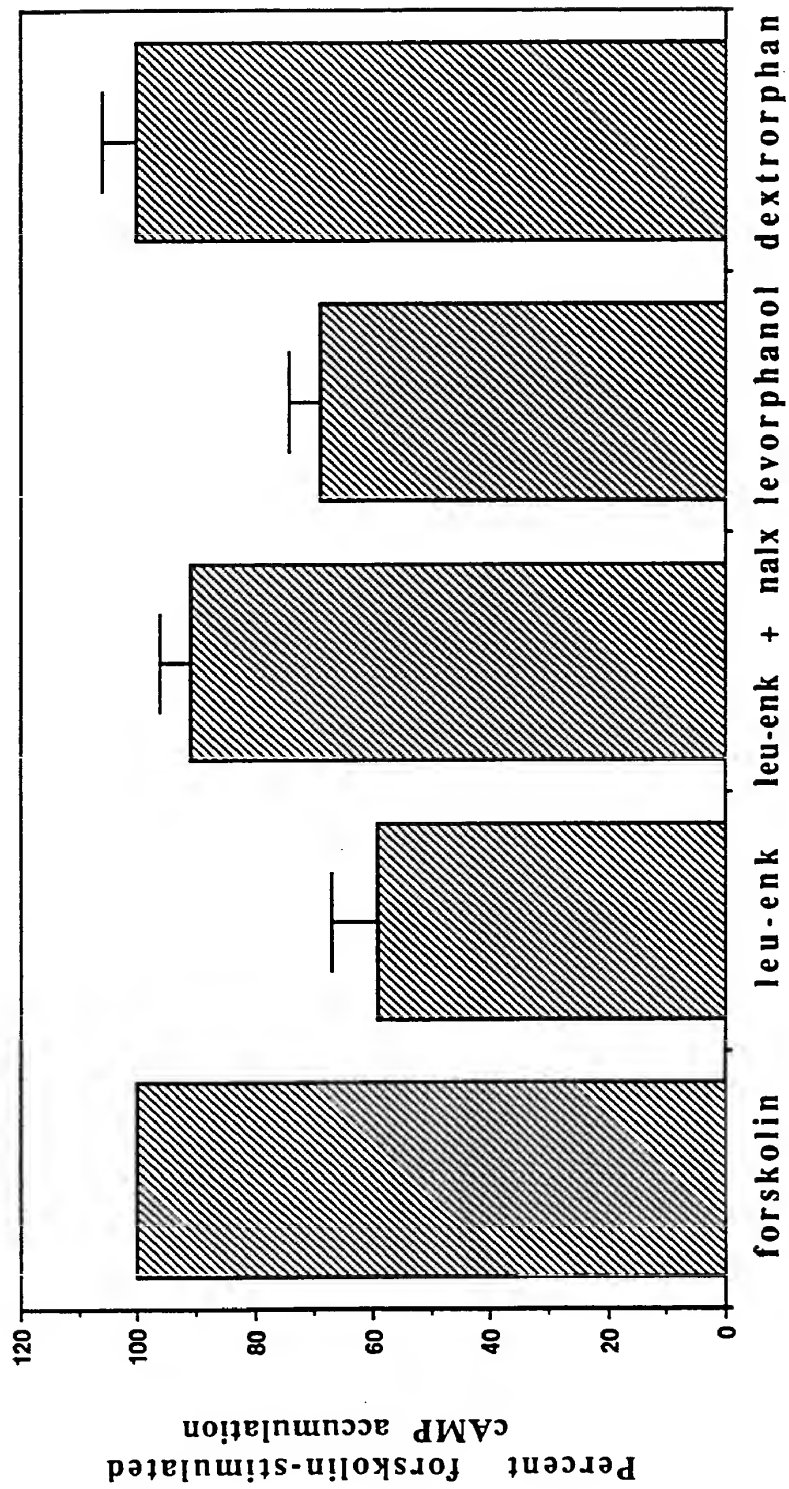


FIG. 16

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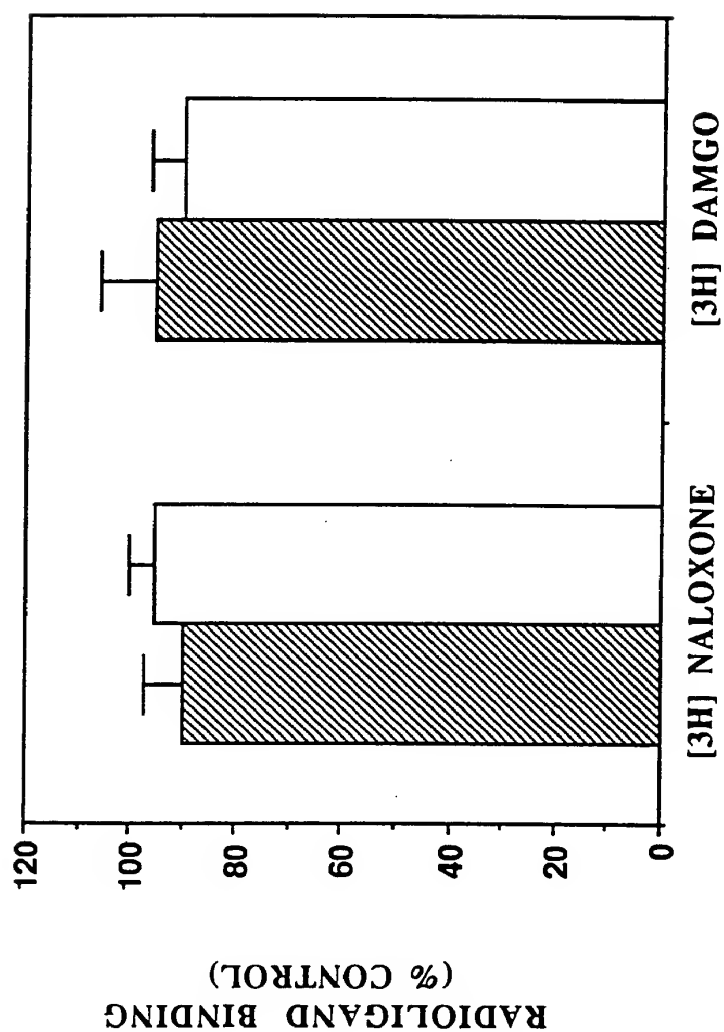


FIG. 17

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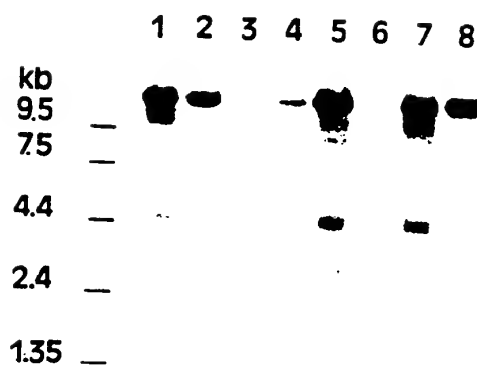


FIG. 18